

APPENDIX B, IMPACTS TO INDIVIDUAL WETLANDS

Table 1—Summary of Wetlands in the Route 26 Study Area

Wetland / Water of the U.S.	Cowarding Classification	Hydrogeomorphic Classification ¹	General Characteristics (Principal Functions Performed ²)
1	PEM	Riverine	Associated with leakage outflow from Shaker Bog; diverse vegetation (4, 5, 8, 11)
2	PSS	Riverine	Like wetland #1, has diverse vegetation in all strata (3, 4, 5, 8)
3	PEM	Slope	Associated with stormwater runoff from Rt 26 and truck depot (4, 5)
4	PEM	Slope	Slope wetland, has purple loosestrife as one dominant
5	PUB	Depression-Closed	Small shallow pond excavated from upland in a residential setting (8)
6	PUB	Depression-Closed	Small pond excavated from previous wetland (4)
7	PEM	Depression-Open	Small emergent area maintained as lawn by resident (2)
8	PSS	Depression-Open	Small shrub wetland in residential setting (2)
9	PFO / PSS	Riverine	Associated with overflow from Shaker Bog; becomes riverine at Rt26 (2, 6, 8)
10	PSS / PEM	Riverine	Large wetland complex; flows to Sabbathday Lake (3, 4, 8)
11	PEM	Riverine	Associated with Mosquito Brook; diverse vegetation (2, 3, 4, 5, 6, 8, 11)
12	PFO / PSS	Riverine	Associated with Mosquito Brook; flows to Sabbathday Lake (2, 3, 4, 5, 6, 8, 11)
13	PSS	Depression-Open	Shrub-dominated area near Sabbathday Lake beach (2, 8)
14	L2US	Lacustrine fringe	Fringe area of Sabbathday Lake, includes part of beach (4, 7)
15	PSS	Riverine	Associated with small seasonal stream (2)
15A	PSS	Riverine	Similar to wetland #15; partially riverine nr culvert at Rt 26 (2, 7)
16	PEM	Slope	Wet meadow, disturbed by seasonal cuttings
17	PEM	Riverine	Small emergent wetland bordered by residential area (2, 8)
18	PEM	Depression-Open	Disturbed area in residential setting; vegetation is frequently cut (2)
19	R4SB3	(Stream)	Seasonal stream with defined channel; crosses Rt 26 near Abby Road
20	PEM	Depression-Closed	Small depression with some stormwater detention capacity (2)

Table 1—Summary of Wetlands in the Route 26 Study Area (cont.)

Wetland / Water of the U.S.	Cowardin Classification	Hydrogeomorphic Classification ¹	General Characteristics (Principal Functions Performed ²)
21	PUB	Depression-Open	Small unvegetated depression, excavated from previous upland (2, 8)
22	PUB	Depression-Closed	Small unvegetated depression, excavated from previous upland
23	PEM	Riverine	Associated with powerline, extends to wetland #26 (2, 4, 8)
24	PEM	Riverine	Associated with powerline, has build-up of sand from Rt 26 (2, 4, 8)
25	—	—	—
26	PEM / PSS	Riverine / Slope	Large wetland under powerlines, extends beyond study area (2, 8)
27	PFO	Depression-Closed	Small depression located nr wetland #26 (8)
28	PFO	Depression-Closed	Small depression located nr wetland #26 (8)
29	R4SB3	(Stream)	Steep, seasonal stream with defined channel
30	R4SB3	(Stream)	Steep, seasonal stream with defined channel
31	R4SB3	(Stream)	Steep, seasonal stream with defined channel
32	PEM	Depression-Open	Emergent area located in shallow swale along a seasonal stream (8)
33	PFO	Riverine	Dense shrub wetland located immediately north of Pond Road (2, 4, 5, 6, 8)
34 & 34a	PFO	Organic Flat	Large forested wetland located at Brackett Road; shown on NWI (1, 2, 4, 8, 11)
35	PEM / PSS	Riverine	Associated with floodplain of Mosquito Brook; diverse vegetation (2, 3, 4, 8, 11)
36	R4SB4	(Stream)	Seasonal stream with defined channel
37	PEM	Depression-Closed	Depression wetland located in undulating topography (1, 8)
38	PFO	Depression-Closed	Depression wetland with Smaller Purple Fringed Orchid (1, 8)
39	PEM	Depression-Closed	Small depression wetland, similar to wetland #37 (1, 8)
40	PUB	Depression-Closed	Small pond excavated out of previous upland (8)
41	PEM	Slope	Wet meadow dominated by sedges
42	PEM	Slope	Wet meadow which forms headwaters of Water #19 (1)
43	PEM / PSS	Slope	Shrub-dominated area adjacent to abandoned apple orchard (1, 8)

Table 1—Summary of Wetlands in the Route 26 Study Area (cont.)

Wetland / Water of the U.S.	Cowardin Classification	Hydrogeomorphic Classification ¹	General Characteristics (Principal Functions Performed ²)
44	PSS	Slope	Long, narrow shrub wetland with shallow swale in center (6, 8)
45	PEM	Slope	Grass and forb dominated wetland located above Wetland #44 (5, 8)
46	PEM	Slope	Small area located in Shaker hay field; formed on the drumlin (1)
47	PEM	Slope	Linear area located in Shaker hay field; formed on the drumlin (1)
48	PEM	Slope	Small area located in Shaker hay field; formed on the drumlin (1)
49	PEM	Slope	Linear area located in Shaker hay field; formed on the drumlin (1)
50	PSS	Depression-Open	Headwater wetland located above Wetlands #45, 44 (2, 8)
51	PSS	Depression-Closed	Depression resembling a sinkhole in abandoned apple orchard (8)
52	PEM	Slope	Wet meadow area along Rt 26; maintained as lawn

¹ Smith, R.D. et.al, 1995

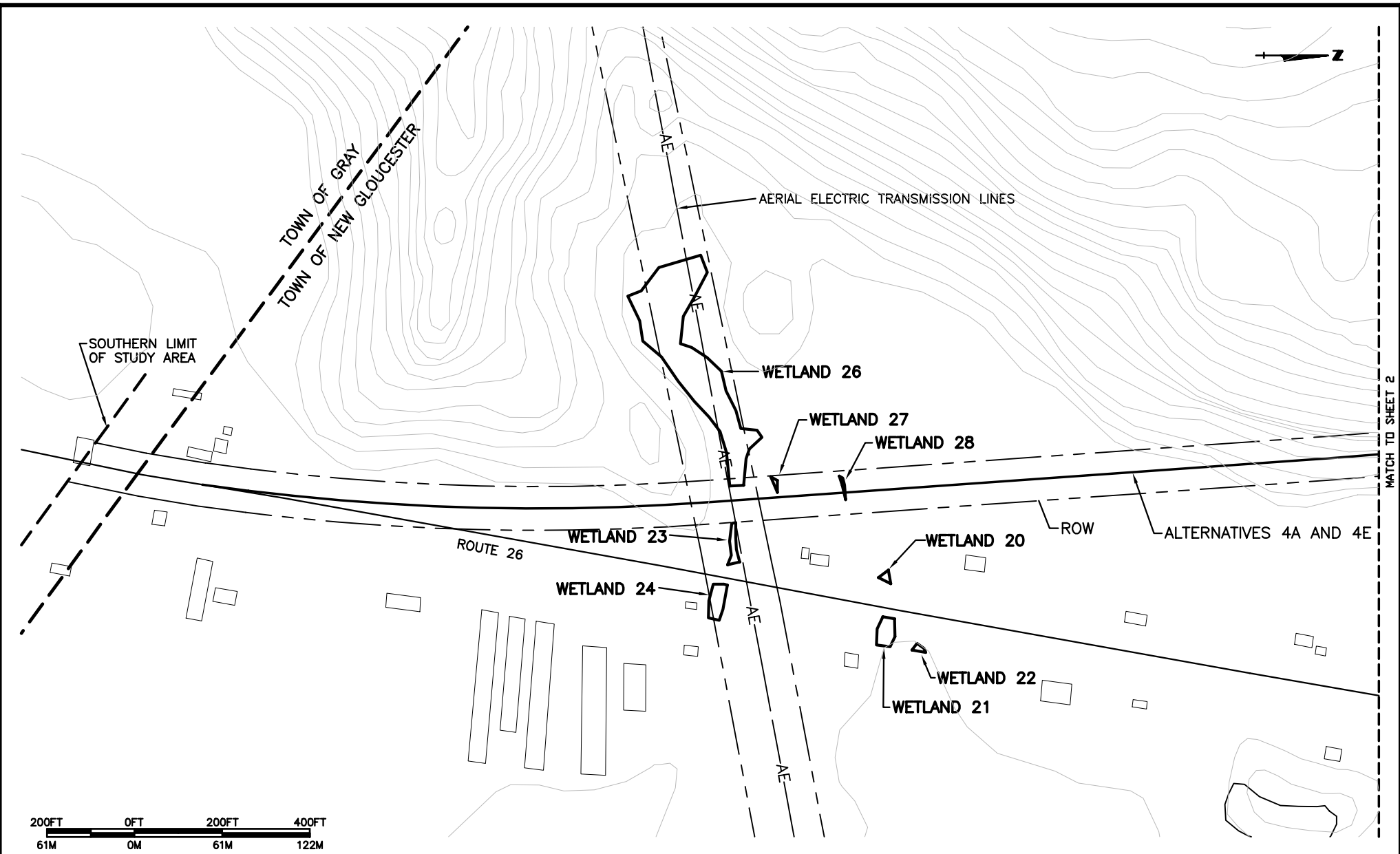
² Functions are numbered as follows:

- | | | |
|----------------------------------|------------------------------------|-------------------------------|
| 1 Groundwater recharge/discharge | 6 Production export | 11 Uniqueness/heritage |
| 2 Floodflow alteration | 7 Sediment/shoreline stabilization | 12 Visual quality/aesthetics |
| 3 Fish and shellfish habitat | 8 Wildlife habitat | 13 Endangered species habitat |
| 4 Sediment/toxicant retention | 9 Recreation | |
| 5 Nutrient removal | 10 Educational scientific value | |

Table 2—Impacts to Individual Wetlands

Wetland #	Classification	Alternative 4A (ac.)	Alternative 4E (ac.)
1	PEM	0.36	0.10
2	PSS	0.0	0.03
3	PEM	0.05	0.05
4	PEM	0.009	0.009
5	PUB	0.008	0.008
8	PSS	0.002	0.002
9	PFO/PSS	0.04	0.03
11	PEM	0.83	0.83
17	PEM	0.006	0.0
18	PEM	0.01	0.0
26	PEM/PSS	0.009	0.009
27	PFO	0.004	0.004
28	PFO	0.005	0.005
33	PFO	0.40	0.40
34a	PFO	0.26	0.26
42	PEM	0.0	0.41
44	PSS	0.0	0.23
45	PEM	0.0	0.17
46	PEM	0.03	0.0
Total	*	2.0	2.6

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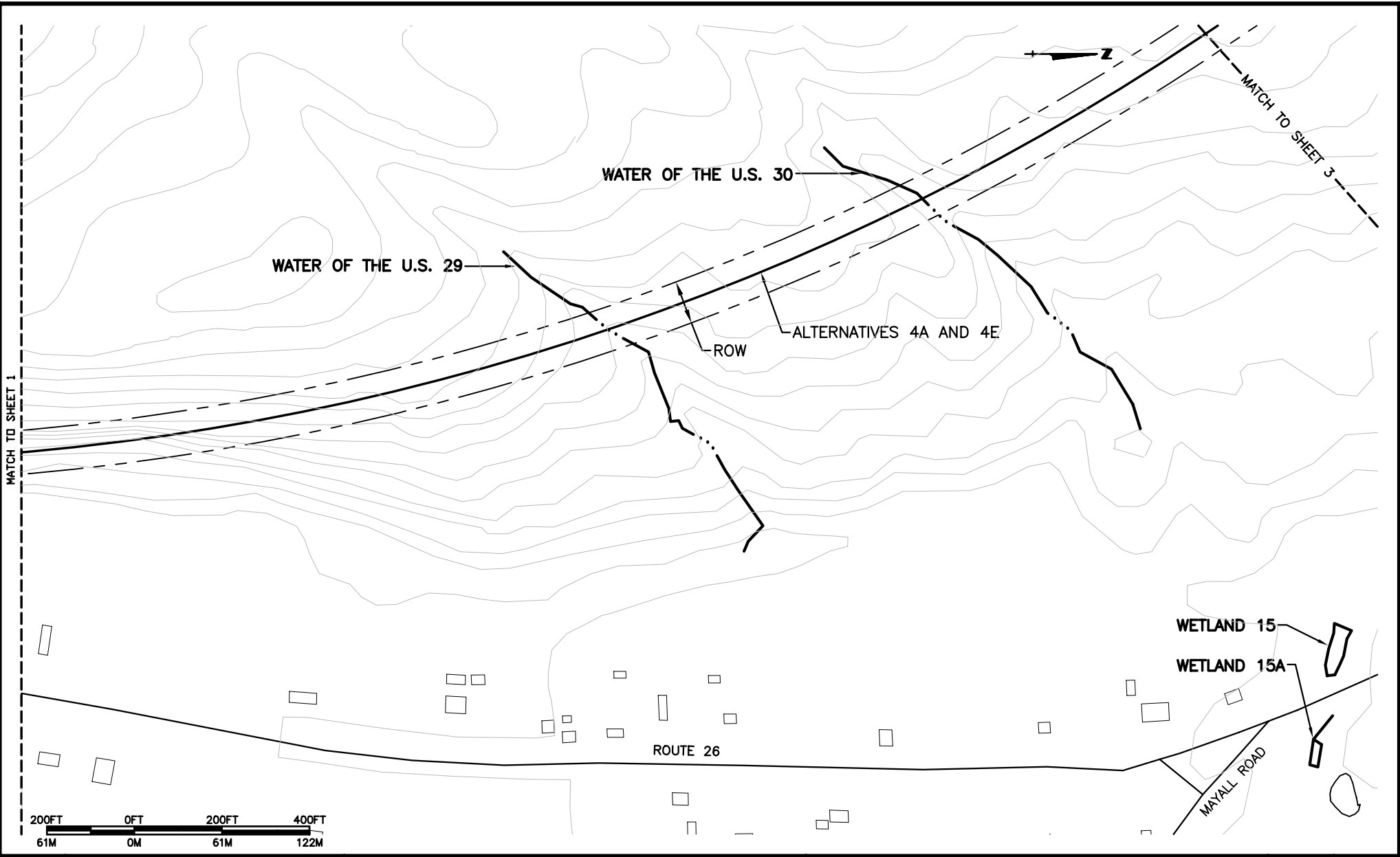
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WETLANDS LOCATION MAP

SCALE AS SHOWN	EXHIBIT #
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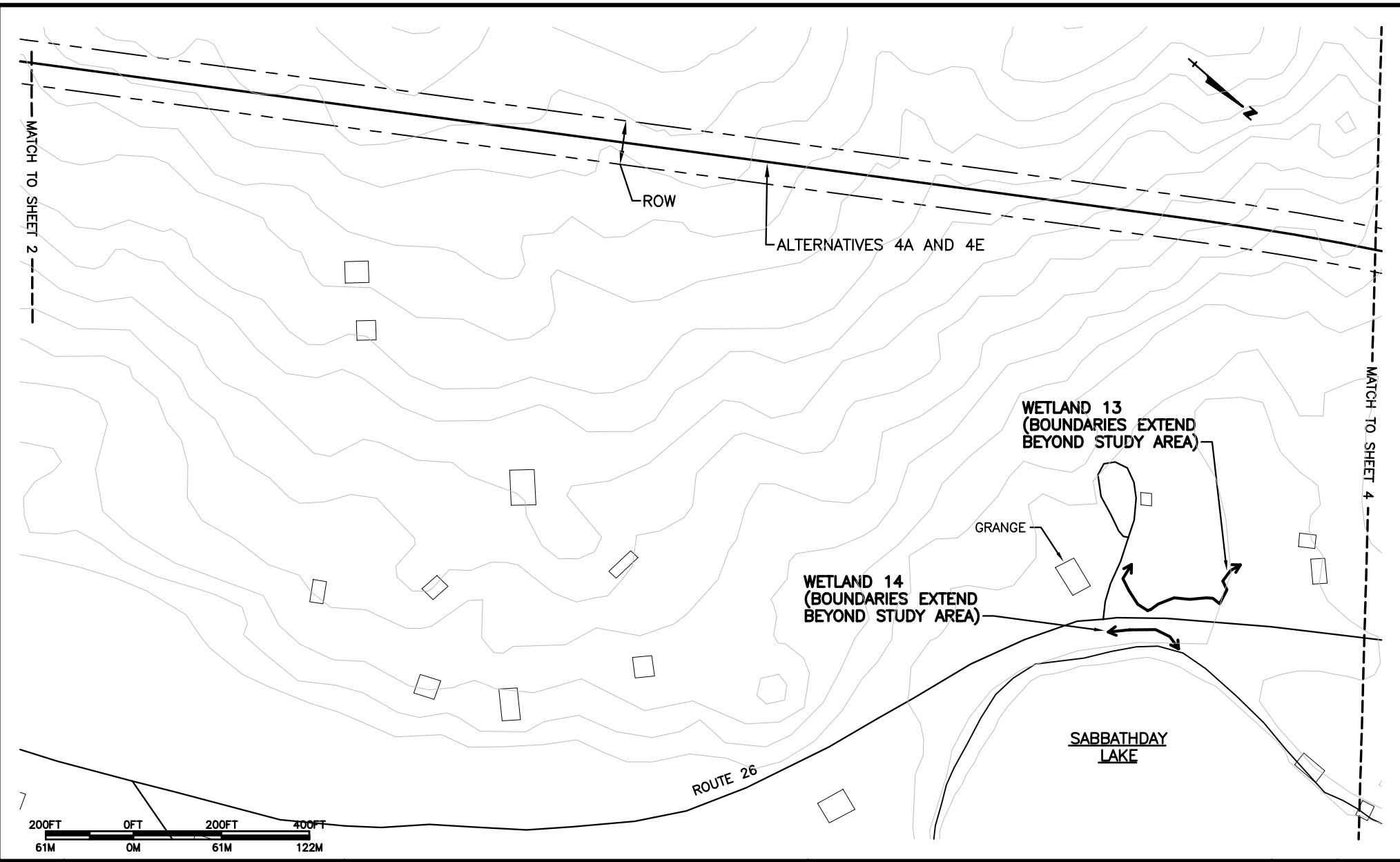
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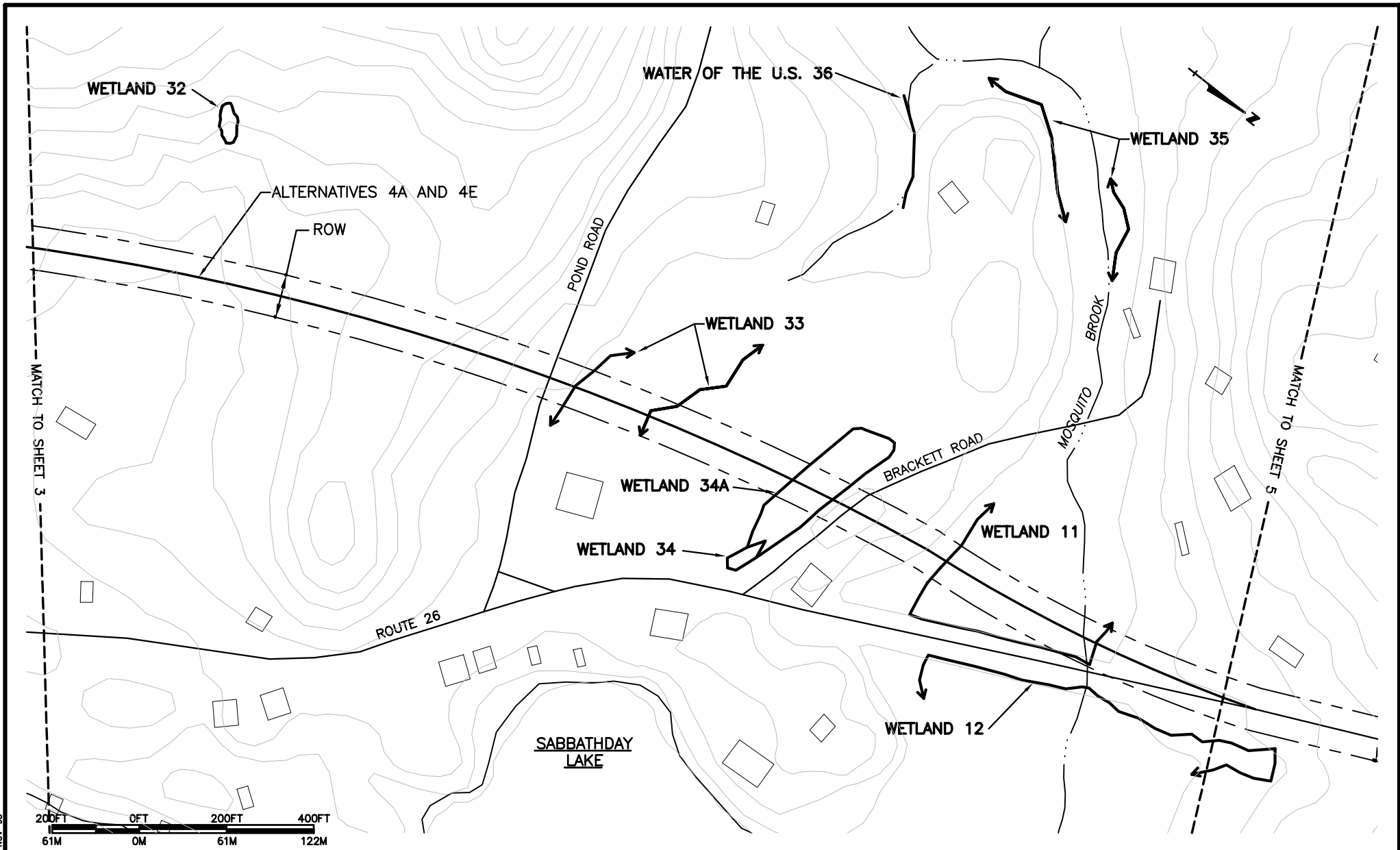
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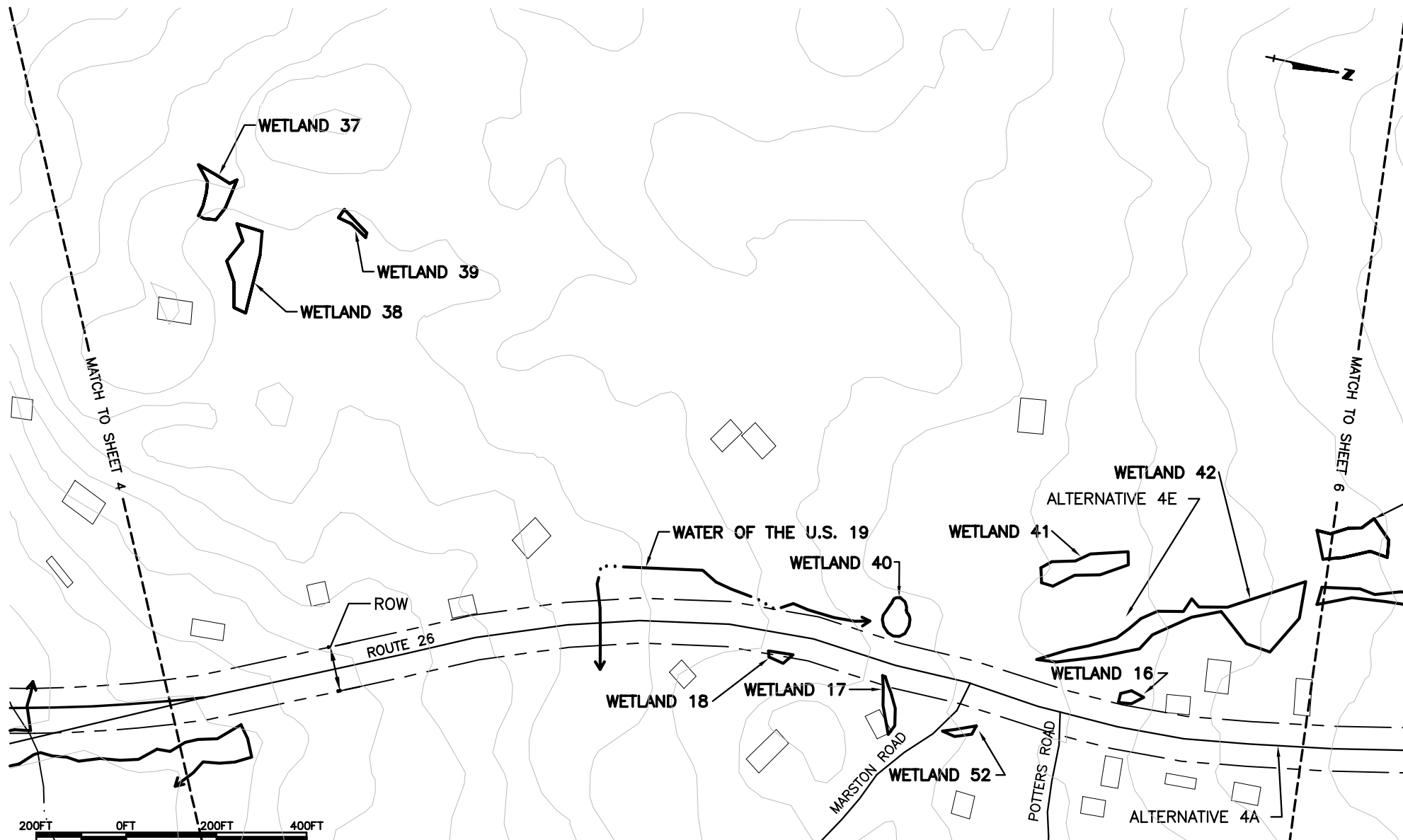
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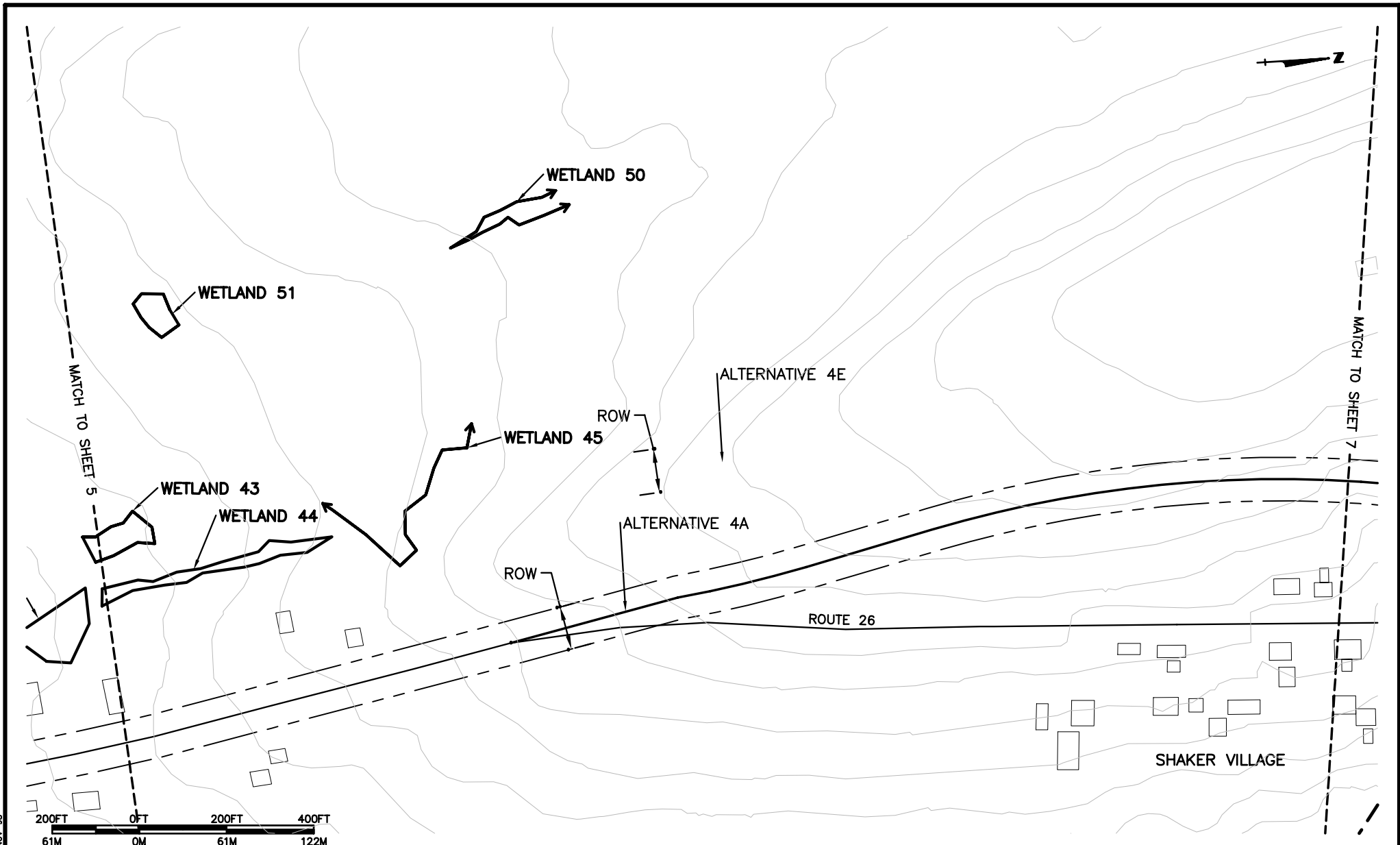
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WETLANDS LOCATION MAP

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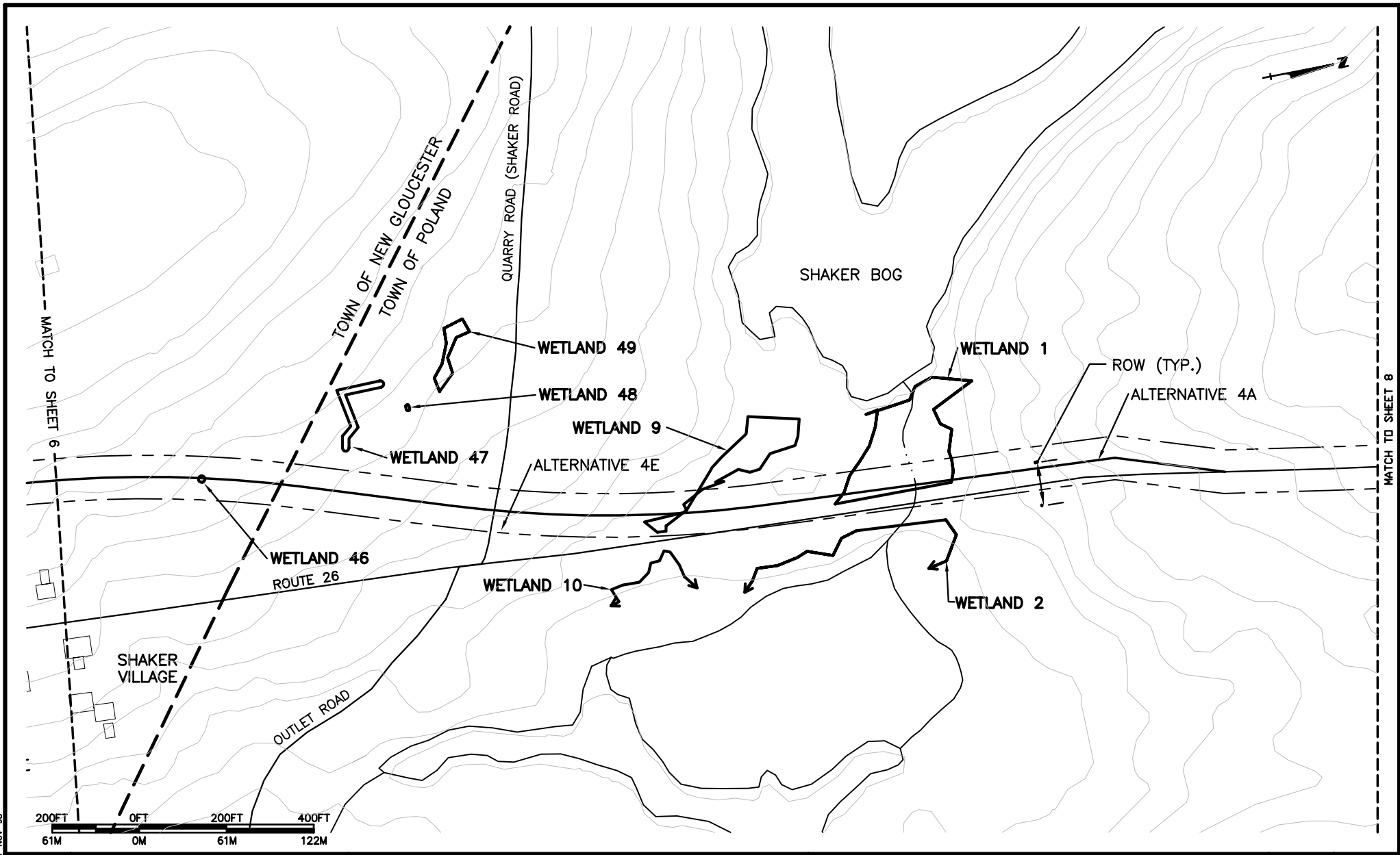
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WETLANDS LOCATION MAP

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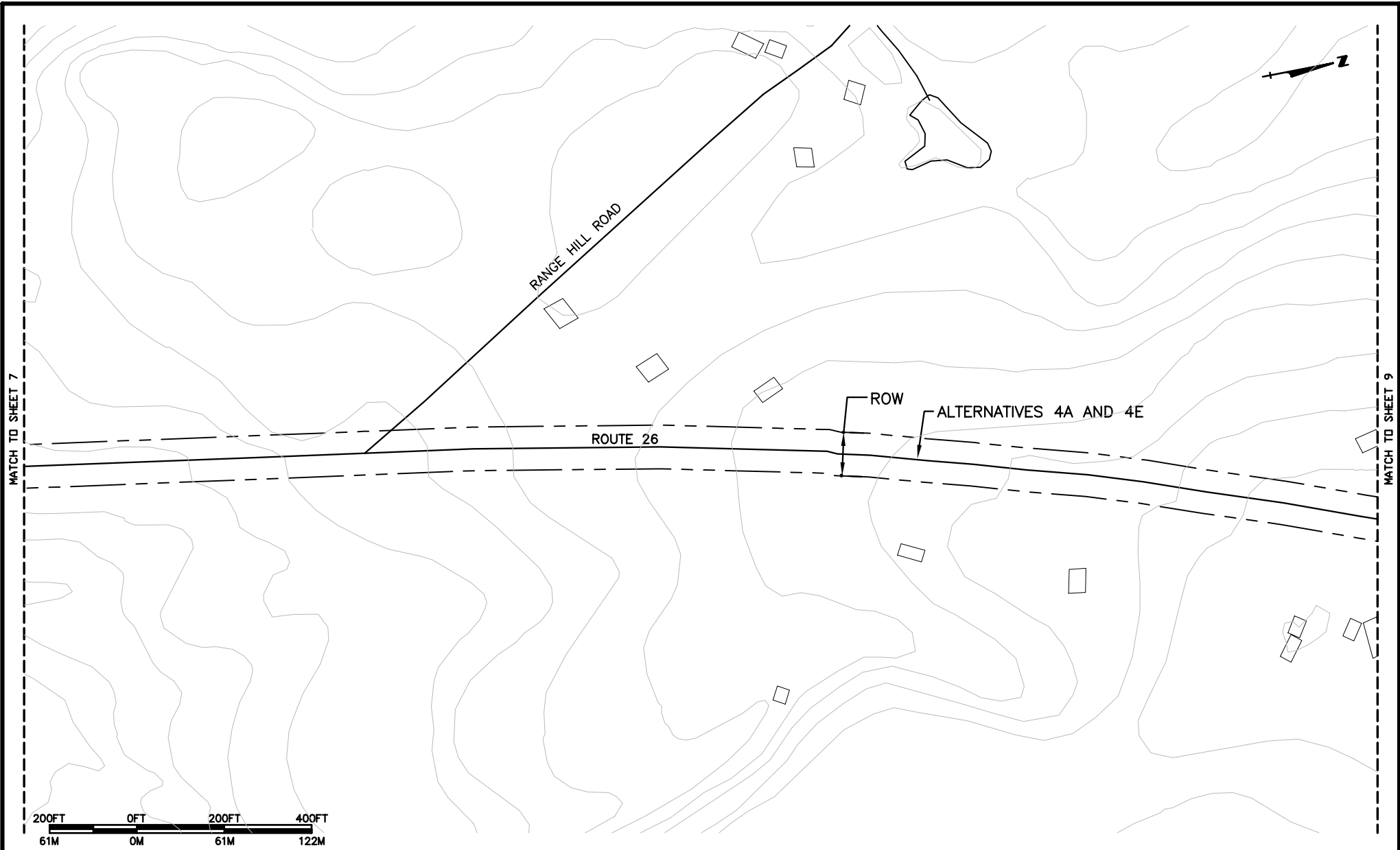
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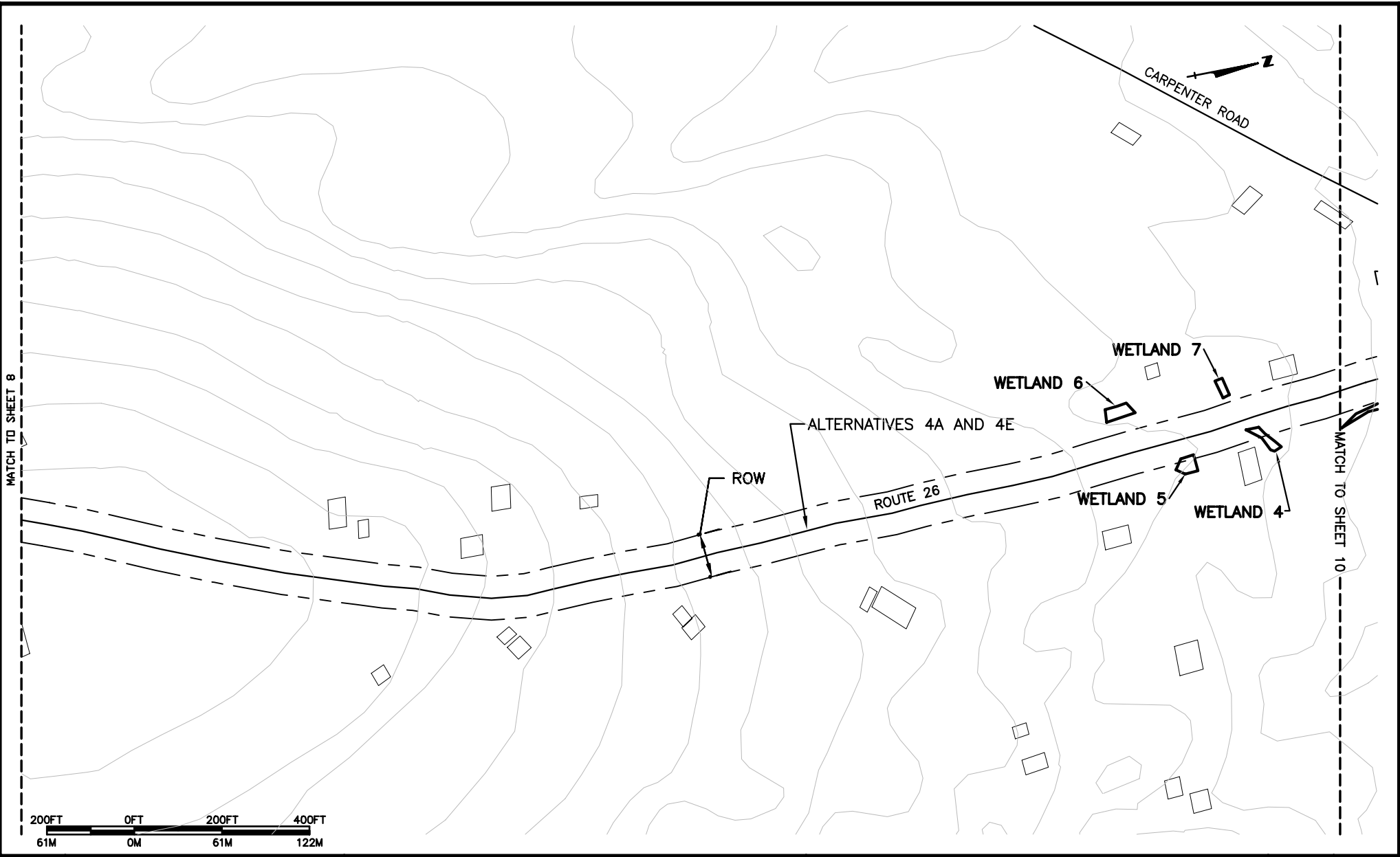
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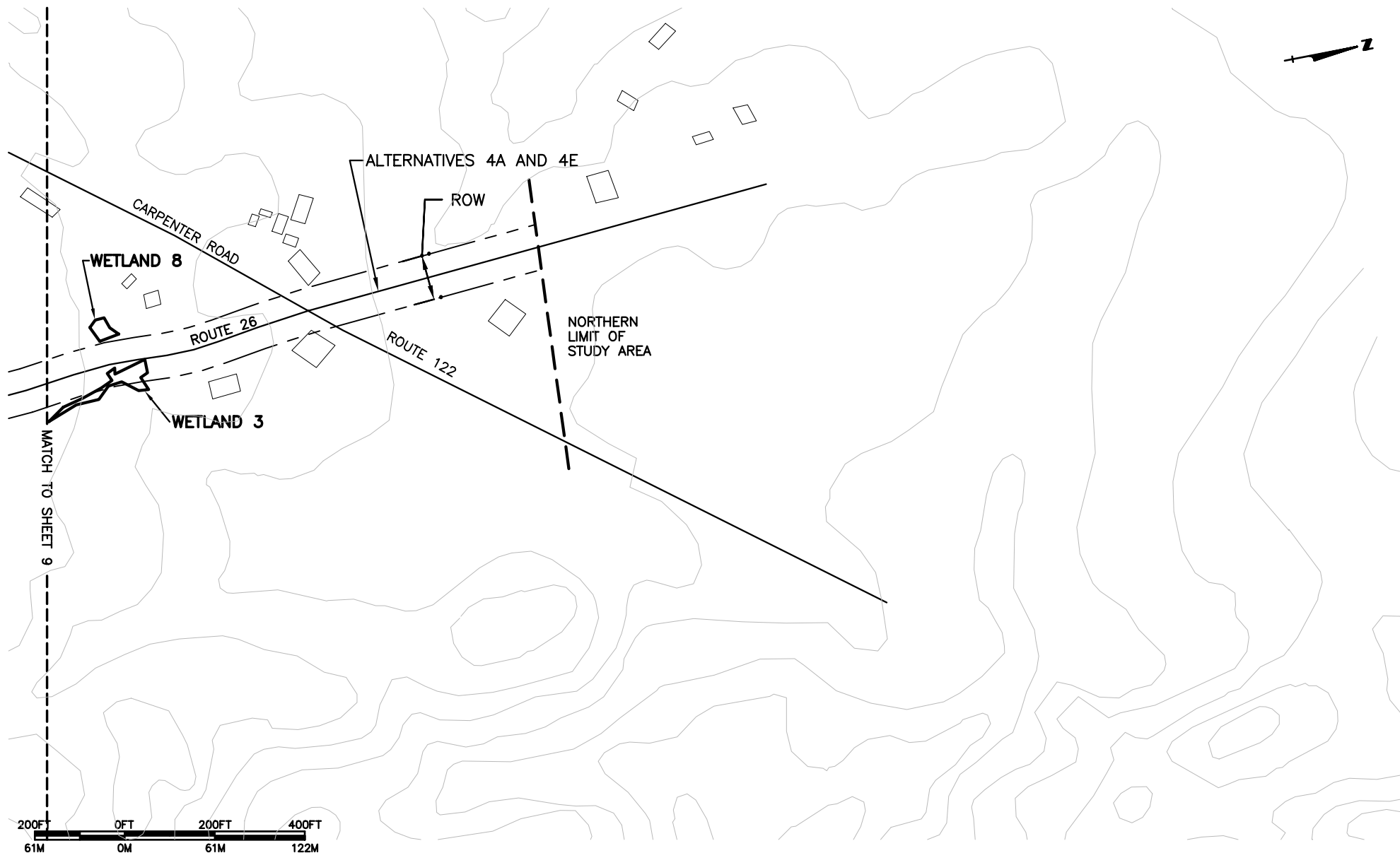
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APPENDIX C, PROJECT ADVISORY COMMITTEE MEMBERS

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